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Baltersee 2-2-2

Method And Rake Receiver For Code-Tracking In Communication Systems

Cross-Reference To Related Application

This application claims priority of European Patent Application No. 00300254.0, which was filed on January 14, 2000.

Description

Field of the Invention

The invention relates to a method and a rake receiver for code-tracking in communication systems in general and in code division multiple access (CDMA) communication systems being subject to multipath fading in particular.

Prior Art

Digital wireless communication systems are of increasing interest for all types of data and speech transmission. A frequently used method in particular for mobile cellular communications is code division multiple access (CDMA). For CDMA the signal to be transmitted is typically spread to a multiple of its original bandwidth. The signal with spread bandwidth is less sensitive to interference and the spectral power density is reduced. Commonly, direct sequence CDMA is used, where the signal is multiplied or correlated by a code sequence before modulation. The spread and correlated symbols are called chips. Using a plurality of code sequences being orthogonal to each other a plurality of communication connections can utilise the same frequency band. Due to the orthogonality of the codes the transmitted signals can be decoded or decorrelated uniquely in the receiver. An advantageous group

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SPECIFICATION

- Amend paragraph beginning at page 11, line 31, as follows:

Herewith, said documents are incorporated ~~as subject matter of the present invention~~ by reference.

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Amendments to the Specification

On page 4 at line 23, insert the heading, --Summary--.